

AMENDMENTS TO CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A data storage device using SDRAM, comprising:

a data transmission converting interface, connecting to a server for converting a data transmitted by said server into storable data;

a buffer, connecting to said data transmission converting interface for temporarily storing said data converted by said data transmission converting interface;

a direct memory storing/retrieving controller, connecting to said buffer;
at least one SDRAM, connecting to said direct memory storing/retrieving controller; and
a SDRAM controller, connecting to said direct memory storing/retrieving controller for controlling said SDRAM, for enabling said direct memory storing/retrieving controller to move said data temporarily stored in said buffer for storing into said SDRAM,

wherein said device is connected to a CCD through said data transmission converting interface, wherein a current signal retrieved by said CCD is converted by said data transmission converting interface into storable data that can be temporarily stored in said buffer, and wherein when said SDRAM controller controls the direct memory storing/retrieving controller again, said direct memory storing/retrieving controller will move said data temporarily stored in the buffer for storing into said SDRAM.

2. (Original) The data storage device according to claim 1, wherein said server is comprised of a computer.

3. (Original) The data storage device according to claim 1, wherein said data transmission converting interface is connected to said server using a wire for data transmission.

4. (Original) The data storage device according to claim 1, wherein said data transmission converting interface is wirelessly connected to said server for data transmission.

5. (Canceled)

6. (Canceled)

7. (Canceled)

8. (Currently Amended) The data storage device according to claim-5_1, wherein said data transmission converting interface is connected to said ~~data retrieving element~~ CCD using a wire for data transmission.

9. (Currently Amended) The data storage device according to claim-5_1, wherein said data transmission converting interface is connected wirelessly to said ~~data retrieving element~~ CCD for data transmission.

10. (Original) The data storage device according to claim 1, wherein said SDRAM is comprised of a DDR SDRAM.

11. (Original) The data storage device according to claim 1, wherein said device further comprises a power management module and a dry cell, wherein when said power management module detects a low power supply to said data storage device, said power management module switches to said dry cell for supplying power to said SDRAM to enable said SDRAM to refresh.

12. (New) A data storage device using SDRAM, comprising:

a data transmission converting interface, connecting to a server for converting a data transmitted by said server into storable data;

a buffer, connecting to said data transmission converting interface for temporarily storing said data converted by said data transmission converting interface;

a direct memory storing/retrieving controller, connecting to said buffer;

at least one SDRAM, connecting to said direct memory storing/retrieving controller; and

a SDRAM controller, connecting to said direct memory storing/retrieving controller for controlling said SDRAM, for enabling said direct memory storing/retrieving controller to move said data temporarily stored in said buffer for storing into said SDRAM,

wherein said device is connected to a CMOS image sensing element through said data transmission converting interface, wherein a current signal retrieved by said CMOS image sensing element is converted by said data transmission converting interface into storable data that can be temporarily stored in said buffer, and wherein when said SDRAM controller controls the direct memory storing/retrieving controller again, said direct memory storing/retrieving controller will move said data temporarily stored in the buffer for storing into said SDRAM.

13. (New) The data storage device according to claim 12, wherein said server is comprised of a computer.

14. (New) The data storage device according to claim 12, wherein said data transmission converting interface is connected to said server using a wire for data transmission.

15. (New) The data storage device according to claim 12, wherein said data transmission converting interface is wirelessly connected to said server for data transmission.

16. (New) The data storage device according to claim 12, wherein said data transmission converting interface is connected to said CMOS image sensing element using a wire for data transmission.

17. (New) The data storage device according to claim 12, wherein said data transmission converting interface is connected wirelessly to said CMOS image sensing element for data transmission.

18. (New) The data storage device according to claim 12, wherein said SDRAM is comprised of a DDR SDRAM.

19. (New) The data storage device according to claim 12, wherein said device further comprises a power management module and a dry cell, wherein when said power management module detects a low power supply to said data storage device, said power management module switches to said dry cell for supplying power to said SDRAM to enable said SDRAM to refresh.